

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	133	toner and ((silica or silicon dioxide or "SiO.sub.2") same ((Dv\$5) or (Dv50/Dv10)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2008/08/08 12:46
S2	6	toner and ((silica or silicon dioxide or "SiO.sub.2") same ((Dv50/Dv10)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2008/08/08 12:52
S3	6	toner and ((silica or silicon dioxide or "SiO.sub.2") same ((Dv\$2/Dv\$2)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2008/08/08 13:04
S4	2	JP-2002182423-\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2008/08/08 13:22
S5	5	toner and ((silica or silicon dioxide or "SiO.sub.2") same (D50 same (D90 or D10)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2008/08/08 13:29
S6	91	toner and ((silica or silicon dioxide or "SiO.sub.2") same (GSD or geometric standard deviation))	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2008/08/08 13:32
S7	2	S6 and sphericity	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2008/08/08 13:33
S8	0	S1 and S6	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2008/08/08 13:51
S9	5773	toner and ((D10 or D90) with D50)	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2008/08/11 08:20
S10	5	toner and (((D10 or D90) with D50) same (silica or "SiO.sub.2" or silicon dioxide))	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2008/08/11 08:21
S11	1	("20070020543").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/08/11 08:23
S12	7	toner and (((Dv10 or Dv90) with Dv50) same (silica or "SiO.sub.2" or silicon dioxide))	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2008/08/11 08:24

EAST Search History (Prior Art)

S13	7	toner and ((Dv10 with Dv50) same (silica or "SiO.sub.2" or silicon dioxide))	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2008/08/11 08:28
S14	0	toner and ((Dv90 with Dv50) same (silica or "SiO.sub.2" or silicon dioxide))	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2008/08/11 08:29
S15	37	toner and ((silica or silicon dioxide or "SiO.sub.2") with (GSD or geometric standard deviation))	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2008/08/11 08:36
S16	297	toner and ((silica or silicon dioxide or "SiO.sub.2") with (GSD or geometric standard deviation or geometric standard distribution or geometric size distribution or particle size distribution))	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2008/08/11 08:38
S17	72	S16 and ((large or great or wide) with (GSD or geometric standard deviation or geometric standard distribution or geometric size distribution or particle size distribution))	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2008/08/11 08:39
S18	49	S16 and ((large or great or wide) near4 (GSD or geometric standard deviation or geometric standard distribution or geometric size distribution or particle size distribution))	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2008/08/11 08:39
S35	1	("6377281").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/08/11 11:58
S36	15	(toner or developer) and (((D50 or Dv50) same (D10 or Dv10 or D90 or Dv90)) same (silica or "SiO.sub.2" or silicon dioxide or metal oxide or external additive or surface additive or fluidity))	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2008/08/11 12:11
S37	1	(developer and external additive and hexahedral inorganic fine particles).ti.	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2008/08/11 12:29
S38	16	(toner or developer) and (((D50 or Dv50) same (D10 or Dv10 or D90 or Dv90)) same (silica or "SiO.sub.2" or silicon dioxide or metal oxide or external additive or surface additive or fluidity or titanium dioxide or titania or aluminum oxide or alumina or zinc oxide or "TiO.sub.2" or "Al.sub.2O.sub.3" or ZnO))	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2008/08/11 12:30
S39	1	S38 not S36	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2008/08/11 12:31

EAST Search History (Prior Art)

S40	297	toner and ((silica or silicon dioxide or "SiO ₂ " sub.2") with (GSD or geometric standard deviation or geometric standard distribution or geometric size distribution or particle size distribution))	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2008/08/11 12:32
S41	72	S40 and ((large or great or wide) with (GSD or geometric standard deviation or geometric standard distribution or geometric size distribution or particle size distribution))	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2008/08/11 12:32
S42	225	S40 not S41	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2008/08/11 12:32
S43	49	S40 and ((large or great or wide) near4 (GSD or geometric standard deviation or geometric standard distribution or geometric size distribution or particle size distribution))	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2008/08/11 12:33
S44	225	S42 not S43	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2008/08/11 12:33
S45	223	S44 not S38	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2008/08/11 12:33
S46	45	toner and ((silica or silicon dioxide or "SiO ₂ " sub.2") with (GSD or geometric standard deviation or geometric standard distribution or geometric size distribution))	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2008/08/11 12:38
S47	45	(toner or developer) and ((silica or silicon dioxide or "SiO ₂ " sub.2") with (GSD or geometric standard deviation or geometric standard distribution or geometric size distribution))	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2008/08/11 12:39
S48	5807	toner and ((D50 or Dv50) same (D10 or Dv10))	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2008/08/11 13:09
S49	7	toner and (((D50 or Dv50) same (D10 or Dv10)) same (external additive or metal oxide))	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2008/08/11 13:09
S50	0	toner and (((D50 or Dv50) same (D10 or Dv10)) same (fluidizing agent))	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2008/08/11 13:10
S51	3	toner and (((D50 or Dv50) same (D10 or Dv10)) same (lubricant or lubricating agent))	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2008/08/11 13:11

EAST Search History (Prior Art)

S52	8	toner and (((D50 or Dv50) same (D10 or Dv10)) same (\$3oxide))	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2008/08/11 13:12
S53	7	toner and (((D50 or Dv50) same (D10 or Dv10)) same (external))	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2008/08/11 13:14
S54	13	toner and (((D50 or Dv50) same (D10 or Dv10)) same (silic\$8))	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2008/08/11 13:14
S55	3	toner and (((D50 or Dv50) same (D10 or Dv10)) same (lubrica\$8))	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2008/08/11 13:17
S56	4	toner and (((D50 or Dv50) same (D10 or Dv10)) same (fluid\$8))	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2008/08/11 13:18
S57	7	toner and (((D50 or Dv50) same (D10 or Dv10)) same (external\$8))	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2008/08/11 13:18
S58	6	toner and (((D50 or Dv50) same (D10 or Dv10)) same (surface))	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2008/08/11 13:18
S59	2	developer and (((D50 or Dv50) same (D10 or Dv10)) same (extern\$8))	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2008/08/11 13:20
S60	0	developer and (((D50 or Dv50) same (D10 or Dv10)) same (metal oxide))	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2008/08/11 13:21
S61	7	developer and (((D50 or Dv50) same (D10 or Dv10)) same (\$3oxide))	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2008/08/11 13:21
S63	152	(toner or developer) and ((silica or silicone dioxide or "SiO.sub.2") near8 (polydispersity or particle size distribution))	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2008/08/11 13:29
S64	1	("20070020543").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/08/11 14:30
S65	1	S64 and part\$3 agent	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2008/08/11 14:30

EAST Search History (Prior Art)

S66	1	("20070020543").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/08/11 20:58
S67	1	S66 and conduct\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2008/08/11 20:58
S68	731	430/108.7.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2008/08/12 07:37
S69	925	430/108.6.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2008/08/12 07:37
S70	7	toner and (charge control resin near6 molecular weight)	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2008/08/12 07:38
S71	7	toner and (charge control resin near8 molecular weight)	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2008/08/12 07:42
S72	8	toner and (charge control resin near10 molecular weight)	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2008/08/12 07:42
S73	1	S72 not S71	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2008/08/12 07:42
S74	73	toner and (charge control resin with molecular weight)	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2008/08/12 07:43
S75	65	S74 not S72	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2008/08/12 07:43
S76	1475	(toner or developer) and ((third or three) with (external additive or inorganic particle or inorganic additive or conductive particle or silica or titania))	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2009/04/23 10:19
S77	1	("5776646").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/23 10:21
S78	1	("20070020543").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/08/07 16:37

EAST Search History (Prior Art)

S79	1	S78 and (conduct\$4 or resist\$5 or nonconduct\$4 or non-conduct\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2009/08/07 16:38
S80	167	toner and ((silica or silicon dioxide or "SiO.sub.2") same ((Dv\$5) or (Dv50/Dv10)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2010/01/29 12:48
S81	7	toner and ((silica or silicon dioxide or "SiO.sub.2") same ((Dv50/Dv10)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2010/01/29 12:48
S82	13	(toner or developer) and ((metal oxide or external additive or silica or silicon dioxide or silicon oxide or "SiO.sub.2") with (Dv50 or Dv84 or Dv10 or Dv16))	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2010/01/29 15:16
S83	37	(toner or developer) and ((metal oxide or external additive or silica or silicon dioxide or silicon oxide or "SiO.sub.2") same (Dv50 or Dv84 or Dv10 or Dv16))	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2010/01/29 15:18
S84	24	S83 not S82	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2010/01/29 15:18
S85	1	("20040043315").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/29 15:23
S86	1	("20070020543").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/29 15:28
S87	136	(toner or developer) and (silica near2 conductive)	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2010/01/30 12:14
S88	1	("20080210124").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/30 16:05
S89	179	(core same shell) same (resin) same (nano\$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2010/01/30 16:13
S90	123	resin nanoparticles	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2010/01/30 16:15
S91	8	(toner or developer) and (Dv50/Dv10)	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2010/08/25 11:17

EAST Search History (Prior Art)

S92	2	WO-2005119373-\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2010/08/25 11:22
S93	5	(toner or developer) and (D50/D10)	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2010/08/25 11:38
S94	147	(toner or developer) and (?50/?10)	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2010/08/25 11:38
S95	0	(toner or developer) and ((?50/?10) same (silica or silicon oxide or silicon dioxide or "SiO.sub.2"))	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2010/08/25 11:40
S96	11	(toner or developer) and ((\$2"50"/\$2"10") same (silica or silicon oxide or silicon dioxide or "SiO.sub.2" or external oxide or metal oxide or surface additive or flow enhancer))	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2010/08/25 11:41
S98	4	S96 not S91	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2010/08/25 11:45
S99	7	(toner or developer) and ((D?50/D?10) same (silica or silicon oxide or silicon dioxide or "SiO.sub.2" or external oxide or metal oxide or surface additive or flow enhancer))	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2010/08/25 11:46
S10 0	0	S99 not S91	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2010/08/25 11:46
S10 1	7	(toner or developer) and ((Dv\$2/Dv\$2) same (silica or silicon oxide or silicon dioxide or "SiO.sub.2" or external oxide or metal oxide or surface additive or flow enhancer))	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2010/08/25 11:47
S10 2	0	S101 not S91	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2010/08/25 11:47
S10 3	898	(toner or developer) and ((silica or silicon oxide or silicon dioxide or "SiO.sub.2") with (distribution))	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2010/08/25 11:54
S10 4	374	(toner or developer) and ((silica or silicon oxide or silicon dioxide or "SiO.sub.2") with (particle size distribution or GSD))	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2010/08/25 11:55

EAST Search History (Prior Art)

S10 5	37	(toner or developer) and ((silica or silicon oxide or silicon dioxide or "SiO.sub.2") with (GSD))	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2010/08/25 11:55
S10 6	45	(toner or developer) and ((silica or silicon oxide or silicon dioxide or "SiO.sub.2") with (geometric size distribution or geometric standard distribution or GSD))	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2010/08/25 12:27
S10 7	8	S106 not S105	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2010/08/25 12:27
S10 8	38	(toner or developer) and ((metal oxide or external additive or silica or silicon dioxide or silicon oxide or "SiO.sub.2") same (Dv50 or Dv84 or Dv10 or Dv16))	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2010/08/25 12:31
S10 9	265	(toner or developer) and ((metal oxide or external additive or silica or silicon dioxide or silicon oxide or "SiO.sub.2") same (D50 or D84 or D10 or D16))	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2010/08/25 12:32
S11 0	14	(toner or developer) and ((metal oxide or external additive or silica or silicon dioxide or silicon oxide or "SiO.sub.2") same (D50 same (D10 or D16)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2010/08/25 12:38
S11 1	0	(toner or developer) and ((metal oxide or external additive or silica or silicon dioxide or silicon oxide or "SiO.sub.2") and (D50 same (DV50 or DV10 or DV16)))	EPO; JPO; DERWENT	ADJ	ON	2010/08/25 13:07
S11 2	26	(toner or developer) and ((metal oxide or external additive or silica or silicon dioxide or silicon oxide or "SiO.sub.2") and ((DV50 or DV10 or DV16)))	EPO; JPO; DERWENT	ADJ	ON	2010/08/25 13:07
S11 3	1	("20040043315").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/08/25 13:14
S11 4	4	(toner or developer) and ((metal oxide or external additive or silica or silicon dioxide or silicon oxide or "SiO.sub.2") same ("D.sub.50" same "D.sub.10"))	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2010/08/25 13:15
S11 5	12	(toner or developer) and ((metal oxide or external additive or silica or silicon dioxide or silicon oxide or "SiO.sub.2" or fine particle) same ("D.sub.50" same "D.sub.10"))	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2010/08/25 13:15

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
-------	------	--------------	-----	------------------	---------	------------

EAST Search History (Interference)

L1	1	((toner or developer) and (colored resin particle) and (external additive) and silica and Dv50/Dv10 and particle diameter and volume cumulative and sphericity).dm.	US-PGPUB; USPAT; UPAD	ADJ	ON	2010/08/26 10:13
----	---	---	-----------------------------	-----	----	------------------